



# ST2432D Series

## 24" x 24" Hemispherically-Radiating SpeakerTile®

### Recommended Installations:

- 9/16" T-bar suspended ceiling systems
- 15/16" T-bar suspended ceiling systems

### Recommended Environment:

- Indoor or weather-protected outdoor

### Recommended Accessories:

- PBB 2.0 Backbox kit
- ECS2432D Enclosure compensation module
- Safety Strap (secures SpeakerTile to back-box)

### Available Models:

#### ST2432D:

Plain white (shown in photo)

#### ST2432D-3D1:

Fine Fissured® (or similar) tile pattern

#### ST2432D-3D2:

Cortega® (or similar) tile pattern

#### ST2432D-3D4:

Fissured® (or similar) tile pattern

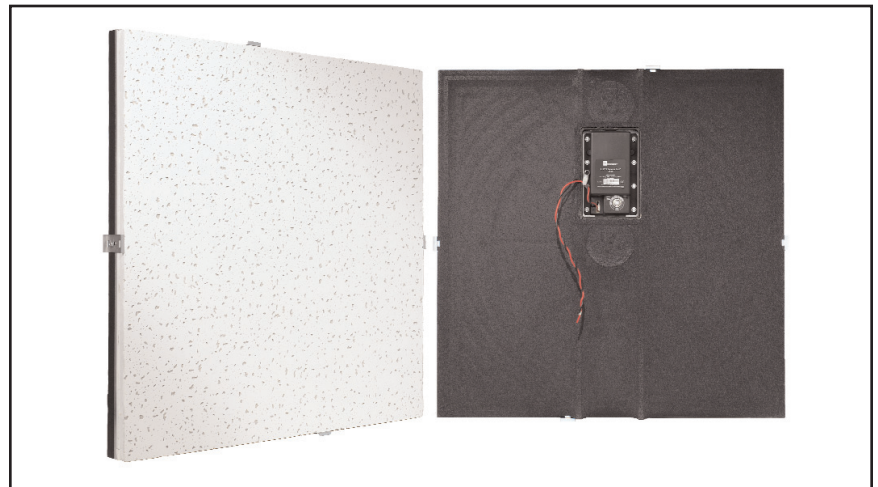
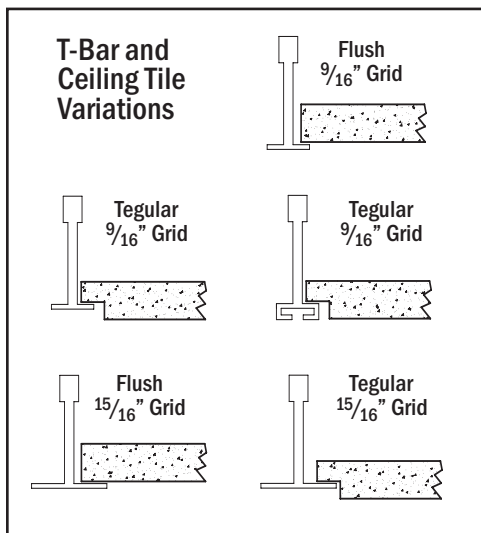
#### ST2432D-3D7:

Optima®/Ultima® (or similar) tile pattern

#### ST2432D-3D21:

Cirrus® (or similar) tile pattern

Tegular cuts are available to match tegular ceiling tiles on 15/16" T-bar grids. Tegular cuts are not required to match tegular ceiling tiles on 9/16" T-bar grids. (See below for ceiling tile examples.) Call Sound Advance for details.



## HIGH QUALITY, WIDE-DISPERSION INVISIBLE SPEAKERTILE®

The Sound Advance® ST2432D SpeakerTile® is a remarkable combination of wide bandwidth, wide dispersion, and a highly-refined aesthetic presentation, designed for commercial installations. It is part of a unique family of truly invisible distributed sound products from Sound Advance.

All ST2432D SpeakerTile models are available in several mounting options, allowing them to be easily installed into standard T-bar suspended ceiling systems, completely replacing a standard 2 ft x 2 ft ceiling tile.

The ST2432D is available in six different models, featuring a selection of standard 3-dimensional patterns or factory-applied surface finishes that allow a match with almost any suspended ceiling tile pattern. The white Expanded PolyStyrene® (EPS) front surface of the speaker tile allows all models to optionally be finished on-site with any water-soluble finish, such as latex paint, or covered with light wallpaper, fabrics and selected texture coats\*, further enhancing the SpeakerTile's ability to blend invisibly with almost any interior design choice.

Patented Planar Diaphragm Technology™ allows a ST2432D that has been properly installed in a suspended ceiling to radiate sound in a 140° hemispherical pattern with smooth, even coverage. This dispersion characteristic allows ST2432D speakers to be spaced farther apart than narrow-dispersion conventional speakers, reducing the total quantity of loudspeakers required in almost any installation.

The ST2432D is a two-way, full-range device that utilizes a crossover centered at 1,200Hz, with 12dB per octave slopes for both low-pass and high-pass sections. The ST2432D is transformer-coupled, with the following input taps: 0.5W, 1W, 2W, 4W, 8W, 16W, 32W and 8-ohm bypass.

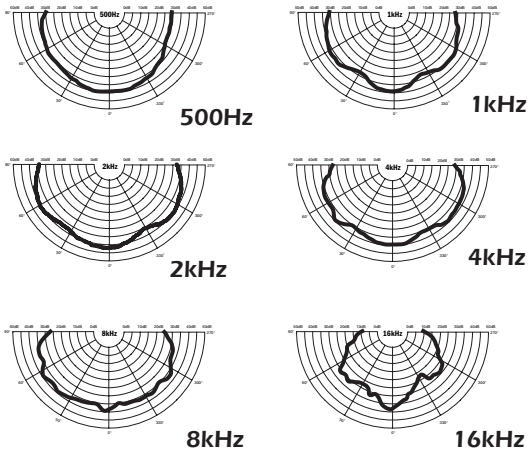
An optional PBB 2.0 backbox is available, and is recommended for use when the SpeakerTile is installed in air handling spaces. An optional ECS enclosure compensation module is available, to optimize performance when the ST2432D is used with the PBB 2.0.

*[\*Please contact Sound Advance for advice before applying any textured coating, light wallpaper or fabrics to the ST2432D.]*

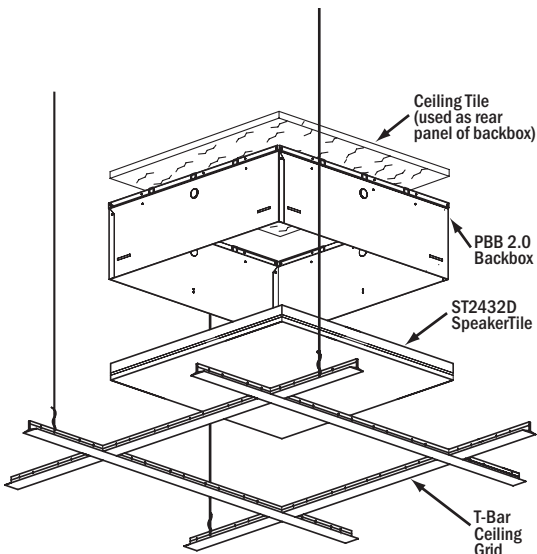
# ST2432D Series

## 24" x 24" Hemispherically-Radiating SpeakerTile®

### Polar Response:



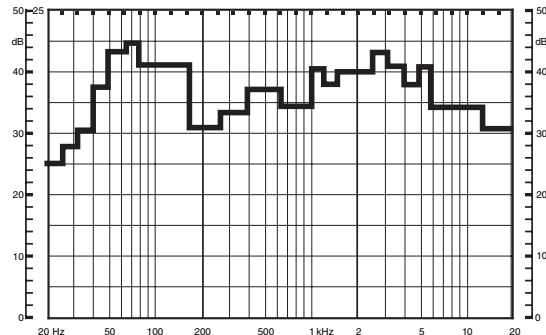
### Installation Example:



### Performance Specifications:

Radiating Surface:	549 in <sup>2</sup> (3,540cm <sup>2</sup> ) Planar Diaphragm
Tweeter System:	0.82 lb (0.37kg) Magnet with 1.02" (26mm) voice coil; 1,200Hz, 12dB/octave high-pass crossover
Woofer System:	0.82 lb (0.37kg) Magnet with 1.02" (26mm) voice coil; 1,200Hz, 12dB/octave low-pass crossover
Frequency Response:	40Hz – 19kHz ±4dB
Power Rating:	75 Watts RMS as per EIA standard RS-426-A
Pressure Sensitivity:	92dB, 1W/1m
System Impedance:	8 ohms nominal, 5.5 ohms minimum
Transformer:	Primary Voltage — 70.7 Volts Primary Taps — 0.5, 1, 2, 4, 8, 16, 32 Watts; 8-ohm bypass
Dimensions (H x W x D):	23 <sup>7</sup> / <sub>16</sub> " x 23 <sup>7</sup> / <sub>16</sub> " x 3" (595mm x 595mm x 76mm)
Product Weight:	11.0 lbs (5kg) each
Shipping Weight:	15.5 lbs (7kg) each

### On-Axis Frequency Response:



### Architects and Engineers Specification:

The ST2432D SpeakerTile® shall be a dual-driver, two-way, full-range device, producing frequencies from 40Hz to 19kHz in both horizontal and vertical planes. The SpeakerTile shall have a sensitivity of 92dB (1W/1m), with a rated power of 75 watts RMS according to EIA standard RS-426-A.

The total radiating surface area shall be 549 in<sup>2</sup> (3,540cm<sup>2</sup>). The high-frequency dispersion shall be at least 140° to the upper frequency limit of the device in question, in both horizontal and vertical planes.

All SpeakerTile models shall have an exterior frame constructed of extruded aluminum that is 23<sup>7</sup>/<sub>16</sub>" (595mm) in length, 23<sup>7</sup>/<sub>16</sub>" (595mm) in width, and 3" (76mm) in total unit depth, not including backbox. The complete unit shall weigh not more than 11.0 lbs (5kg) without its mounting accessories.

The loudspeaker shall be the Sound Advance ST2432D or equivalent.

### Warranty:

Sound Advance warrants the ST2432D to be free of any defect in materials or workmanship for a period of 5 years from the date of purchase. During the warranty period, Sound Advance will repair or replace (at its option) all such defects without charge for parts or labor, if returned prepaid to the proper Sound Advance service facility, together with the original sales receipt or other proof of purchase. The unit will be returned prepaid.



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